A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

November 17, 1989

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of October, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of October. The land crew total decreased by five to 109, and the marine crew decreased by three for a net decrease of eight crews to a total of 130.

The October total (130) represents a decrease of 6% from last month, a 24% decrease from October, 1988, a 33% decrease from October, 1987, an 18% decrease from October, 1986, a 64% decrease from October, 1985, **a 74% decrease from October, 1984, and a decrease of 74% from the same month in 1983.**

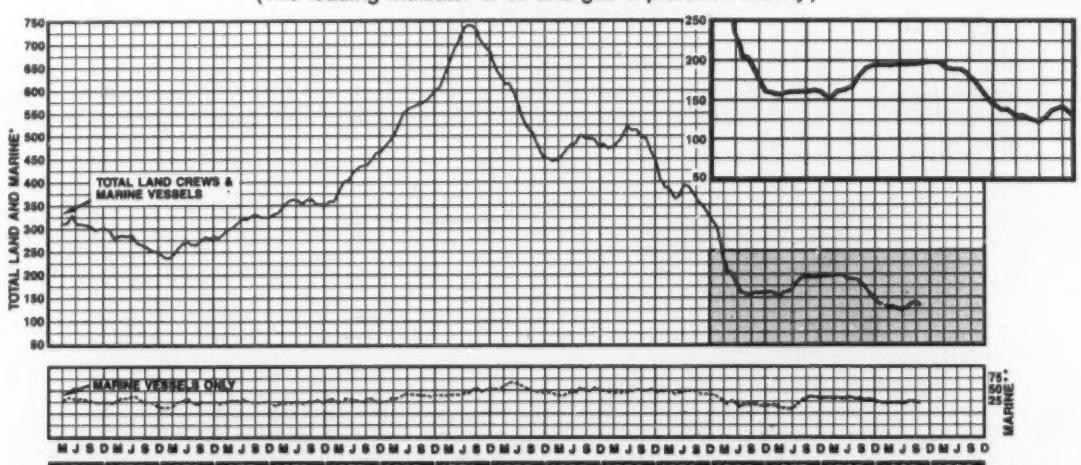
During October, three contractors were operating three of the 100 land crews and none of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Oct.'88	Oct.'87	Oct.'86	Oct.'85	Oct.'84	Oct.'83
	130	138	172	195	158	357	497	498

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Oct. 1988	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983	This Mo.	Last Mo.	Oct. 1988	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983
36 Contr's:	100	104	128	148	119	279	412	410	18	21	27	29	18	38	42	42
5 Oil Co's:	9	10	14	15	17	33	37	38	3	3	3	3	4	7	6	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTALS	109	114	142	163	136	312	449	448	21	24	30	32	22	45	48	50

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

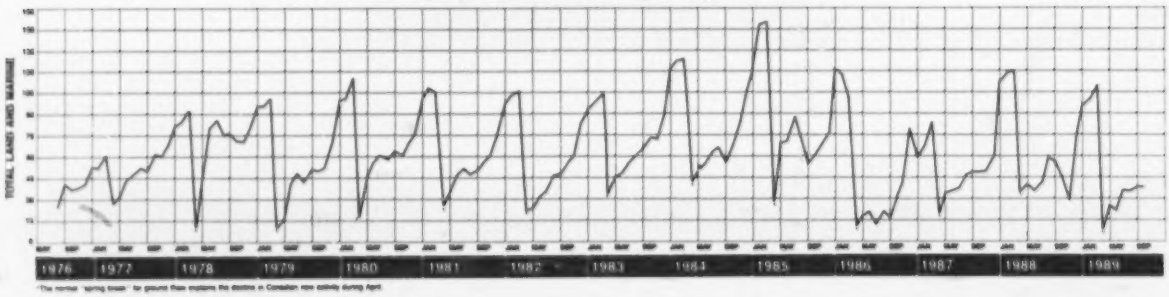
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

October, 1989 (September figures in parentheses)

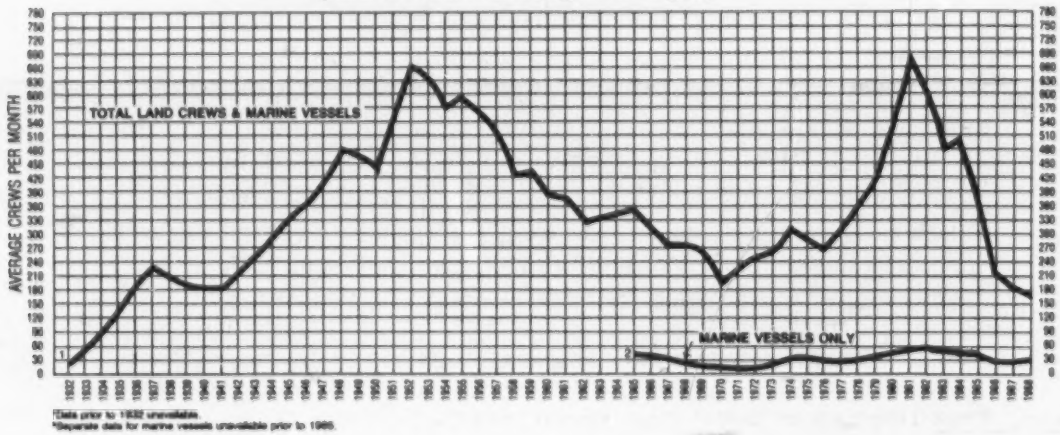
	Land Crews	Marine Crews
23 Contractors:	36 (34)	0 (3)
1 Oil Company:	1 (1)	0 (0)
Totals:	37 (35)	0 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE December 17, 1989

Contact: David L. Yowell or Sally Shank (918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of November, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased for the second consecutive month during November. The land crew total remained the same at 109, and the marine crew decreased by one for a net decrease of one crew to a total of 129.

The November total (129) represents a decrease of 1% from last month, a 17% decrease from November, 1988, a 35% decrease from November, 1987, an 18% decrease from November, 1986, a 63% decrease from November, 1985, **a 74% decrease from November, 1984, and a decrease of 74% from the same month in 1983.**

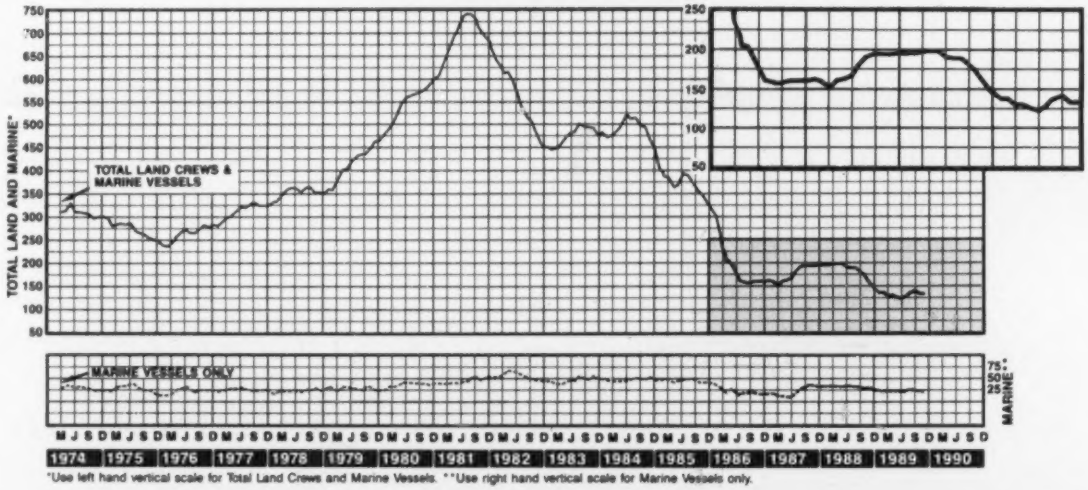
During November, three contractors were operating three of the 99 land crews and none of the seventeen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'88	Nov.'87	Nov.'86	Nov.'85	Nov.'84	Nov.'83
	129	130	155	198	158	346	493	495

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	This Mo.	Last Mo.	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983
37 Contr's:	99	100	114	155	121	273	407	408	17	18	25	25	15	35	42	42
6 Oil Co's:	10	9	13	15	18	32	37	38	3	3	3	3	4	6	7	7
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	109	109	127	170	139	305	444	446	20	21	28	28	19	41	49	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

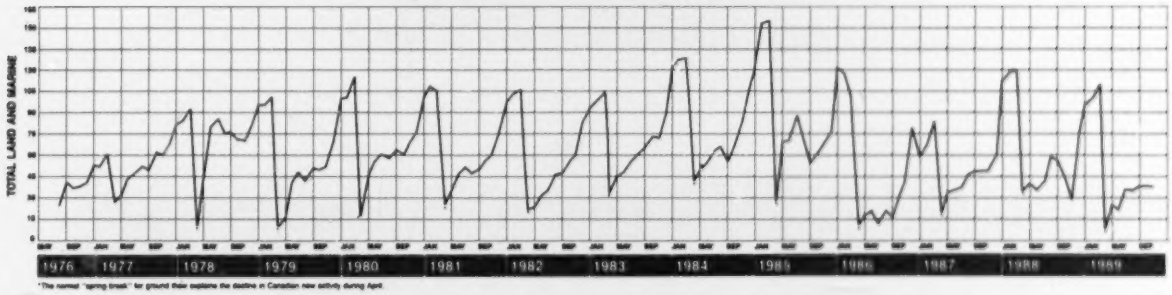
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

November, 1989 (October figures in parentheses)

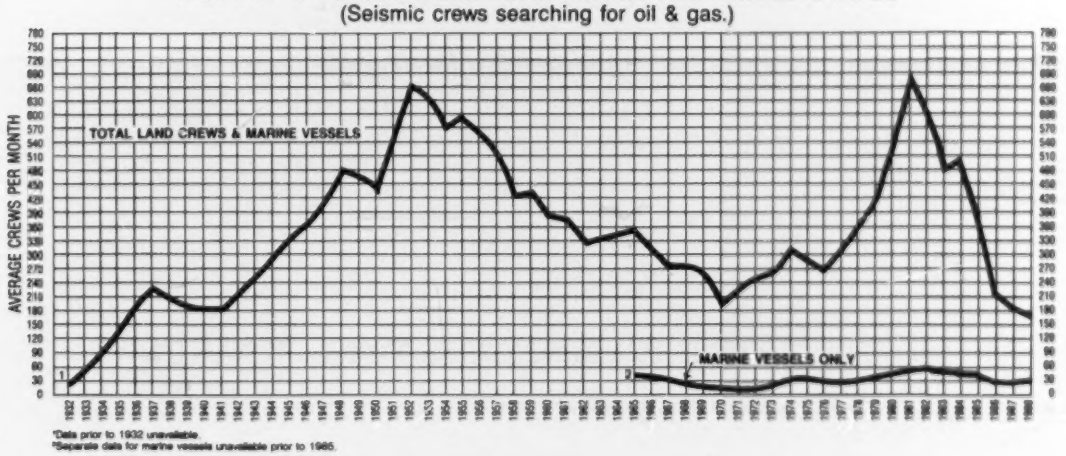
	Land Crews	Marine Crews
25 Contractors:	39 (36)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	40 (37)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1985.

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

January 10, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of December, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during December. The land crew total increased by three to 112, and the marine crew remained the same at twenty for a total of 132 crews and vessels.

The December total (132) represents an increase of 2% over last month, a 6% decrease from December, 1988, a 34% decrease from December, 1987, an 16% decrease from December, 1986, a 60% decrease from December, 1985, a 72% decrease from December, 1984, and **a decrease of 73% from the same month in 1983.**

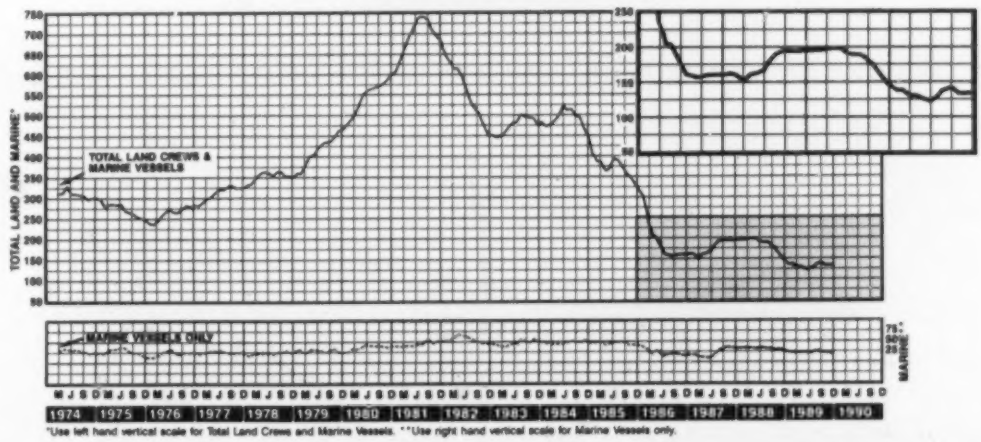
During December, three contractors were operating three of the 102 land crews and none of the seventeen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Dec.'88	Dec.'87	Dec.'86	Dec.'85	Dec.'84	Dec.'83
	132	129	141	199	157	326	466	493

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Dec. 1988	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983	This Mo.	Last Mo.	Dec. 1988	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983
37 Contr's:	102	99	100	157	121	255	378	408	17	17	24	24	15	33	44	41
6 Oil Co's:	10	10	14	15	18	32	36	37	3	3	3	3	3	6	8	7
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	112	109	114	172	139	287	414	445	20	20	27	27	18	39	52	48

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

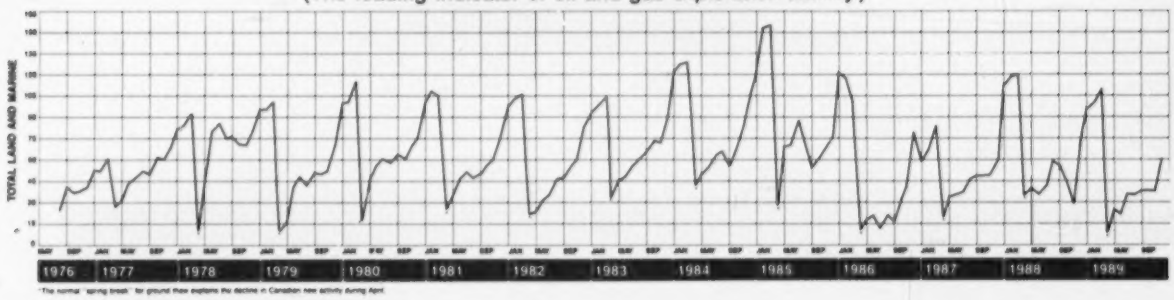
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

December, 1989 (November figures in parentheses)

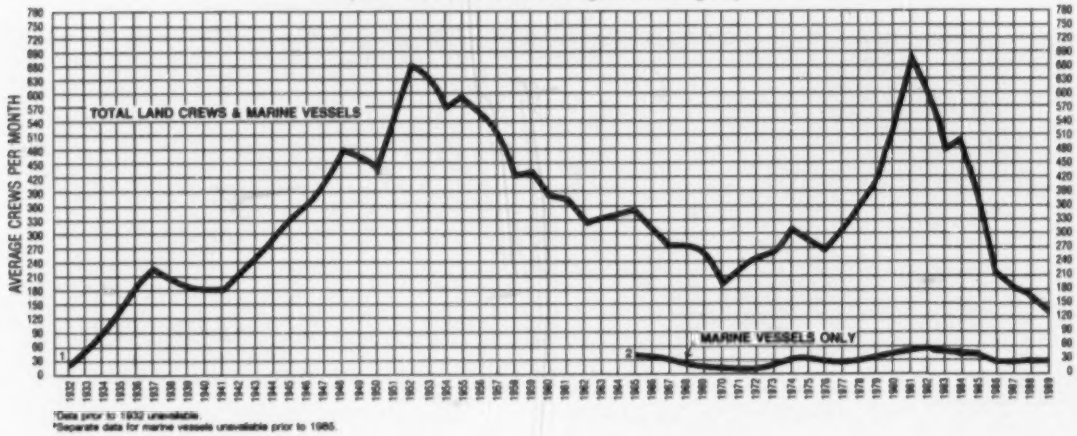
	Land Crews	Marine Crews
27 Contractors:	61 (39)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	62 (40)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1985.

A7912-2

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

March 8, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

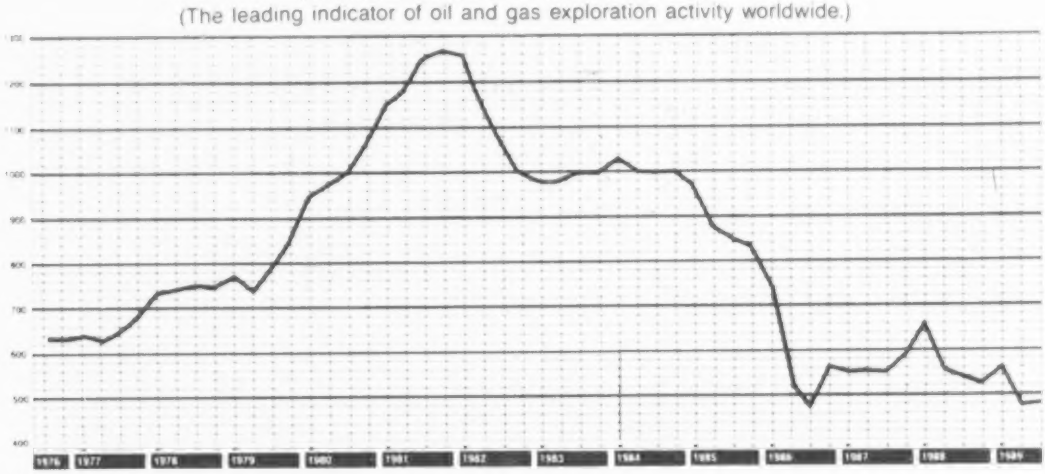
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
INCREASES BY SIX MARINE CREWS DURING SEPTEMBER OF 1989

Worldwide seismic exploration for oil and gas increased by six marine crews during September, 1989, with a total of 483 crews and vessels active. The number of land crews remained the same at 402 for a net increase of six crews over the June 1989 total of 477 crews and vessels active around the world. Increases were reported in the United States, Canada, Europe, and Africa.

The international survey reflects data reported on seismic oil exploration activity by 93 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, SEPTEMBER 1989

Geographically, seismic exploration for oil and gas during September 1989 was reported as follows (June 1989 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
40 Contractors:	104 (92)	21 (18)	24 Contractors:	34 (20)	3 (0)
6 Oil Companies:	10 (10)	3 (3)	1 Oil Company	1 (1)	0 (0)
1 Government	0 (0)	0 (1)			
Totals:	114 (102)	24 (22)	Totals	35 (21)	3 (0)

(OVER)

MEXICO

	Land	Marine
3 Contractors:	10 (12)	0 (0)
1 Government:	5*(5)*	0*(0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	15*(17)*	0*(0)*

CENTRAL & SOUTH AMERICA

	Land	Marine
7 Contractors:	38 (39)	5 (4)
4 Governments:	17*(18)*	1*(0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	55*(57)*	6*(4)*

EUROPE

	Land	Marine
14 Contractors	31*(28)	27*(24)
1 Government:	3 (2)	0 (0)
3 Oil Companies:	13*(13)	1*(1)
Totals:	47*(43)	28*(25)

MIDDLE EAST

	Land	Marine
6 Contractors:	30 (32)	2 (2)
3 Governments:	11*(11)	0*(0)
0 Oil Companies:	0 (1)	0 (0)
Totals:	41*(44)	2*(2)

AFRICA

	Land	Marine
8 Contractors:	42 (34)	5 (5)
2 Governments:	12 (10)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	54 (44)*	5 (5)*

FAR EAST

	Land	Marine
10 Contractors:	32 (29)	13 (14)
2 Governments:	6*(41)*	0*(2)*
2 Oil Companies:	3 (4)	0 (1)
Totals:	41*(74)*	13*(17)*

SEPTEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	114 (102)	24 (22)
Canada:	35 (21)	3 (0)
Mexico:	15*(17)*	0*(0)*
Central & South America:	55*(57)*	6*(4)*
Europe:	47*(43)	28*(25)
Middle East:	41*(44)	2*(2)
Africa:	54 (44)*	5 (5)*
Far East:	41*(74)*	13*(17)*
Totals:	402*(402)*	81*(75)*
Total Crews and Vessels:	483*(477)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

A8912-2

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE June 11, 1990

Contact: David L. Yowell
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(918) 493-3516

INTERNATIONAL SEISMIC CREW COUNT

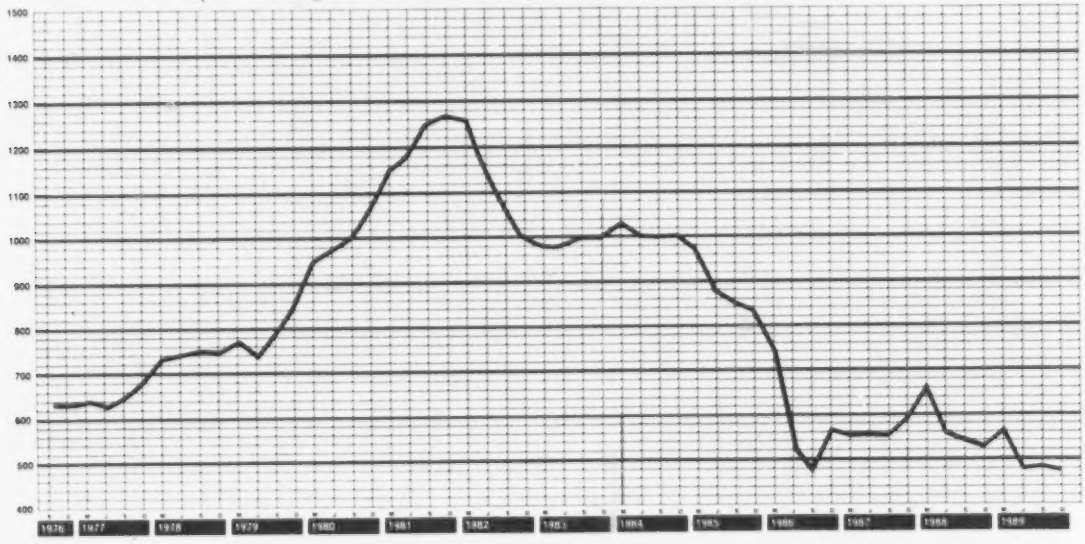
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
DECREASES BY ONE LAND CREW AND EIGHT MARINE CREWS DURING DECEMBER OF 1989

Worldwide seismic exploration for oil and gas decreased by one land crew and eight marine crews during December, 1989, with a total of 474 crews and vessels active around the world. Increases were reported in Canada and Mexico.

The international survey reflects data reported on seismic oil exploration activity by 89 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, DECEMBER 1989

Geographically, seismic exploration for oil and gas during December 1989 was reported as follows (September 1989 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
37 Contractors:	102 (104)	17 (21)	27 Contractors:	61 (34)	0 (3)
6 Oil Companies:	10 (10)	3 (3)	1 Oil Company	1 (1)	0 (0)
1 Government	0 (0)	0 (0)			
Totals:	112 (114)	20 (24)	Totals	62 (35)	0 (3)

(OVER)

MEXICO	Land	Marine
3 Contractors:	12 (10)	0 (0)
1 Government:	5*(5)*	0*(0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	17*(15)*	0*(0)*

CENTRAL & SOUTH AMERICA	Land	Marine
8 Contractors:	32 (38)	6 (5)
5 Governments:	17 (17)*	2 (1)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	49 (55)*	8 (6)*

EUROPE	Land	Marine
13 Contractors	33*(31)*	20*(27)*
1 Government:	1 (1)	0 (0)
2 Oil Companies:	2*(13)*	1*(1)*
Totals:	36*(47)*	21*(28)*

MIDDLE EAST	Land	Marine
6 Contractors:	30 (30)	1 (2)
2 Governments:	8*(11)*	0*(0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	38*(41)*	1*(2)*

AFRICA	Land	Marine
9 Contractors:	34 (42)	12 (5)
2 Governments:	11*(12)	0*(0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	45*(54)	12*(5)

FAR EAST	Land	Marine
10 Contractors:	33 (32)	11 (13)
1 Government:	6*(6)*	0*(0)*
1 Oil Company:	3 (3)	0 (0)
Totals:	42*(41)*	11*(13)*

DECEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	112 (114)	20 (24)
Canada:	62 (35)	0 (3)
Mexico:	17*(15)*	0*(0)*
Central & South America:	49 (55)*	8 (6)*
Europe:	36*(47)*	21*(28)*
Middle East:	38*(41)*	1*(2)*
Africa:	45*(54)	12*(5)
Far East:	42*(41)*	11*(13)*
Totals:	401*(402)*	73*(81)*
Total Crews and Vessels:	474*(483)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

A8912-2

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE November 8, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

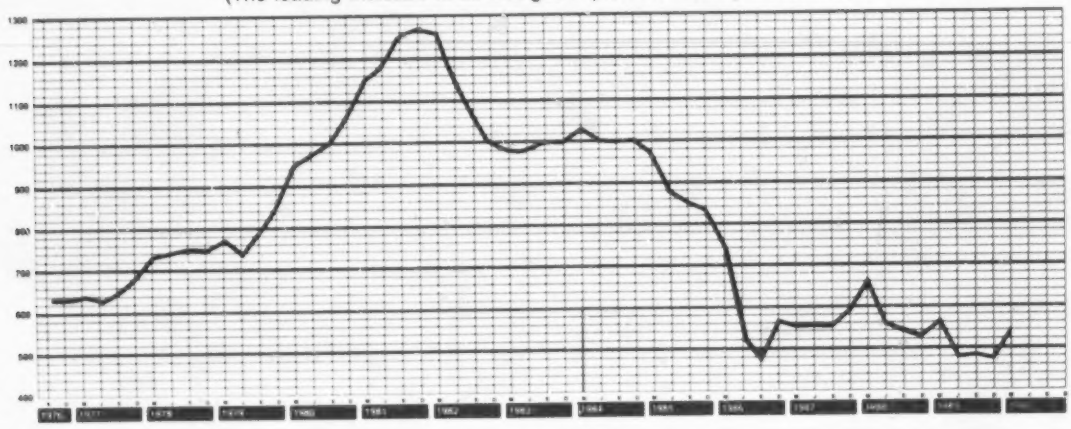
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
INCREASES SIGNIFICANTLY DURING MARCH OF 1990

Worldwide seismic exploration for oil and gas increased by sixty-seven land crews and one marine vessel during March, 1990, with a total of 542 crews and vessels active around the world. Increases were reported in Canada, Central & South America, the Middle East, and the Far East.

The international survey reflects data reported on seismic oil exploration activity by 89 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, MARCH 1990

Geographically, seismic exploration for oil and gas during March, 1990 was reported as follows (December, 1989 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
34 Contractors:	98 (102)	19 (17)	30 Contractors:	97 (61)	0 (0)
5 Oil Companies:	9 (10)	2 (3)	1 Oil Company	1 (1)	0 (0)
1 Government	0 (0)	0 (0)			
Totals:	107 (112)	21 (20)	Totals	98 (62)	0 (0)

(OVER)

MEXICO

	Land	Marine
2 Contractors:	11 (12)	0 (0)
1 Government:	5 (5)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	16 (17)*	0 (0)*

CENTRAL & SOUTH AMERICA

	Land	Marine
6 Contractors:	35 (32)	7 (6)
3 Governments:	15*(17)	1*(2)
1 Oil Company:	0 (0)	1 (0)
Totals:	50*(49)	9*(8)

EUROPE

	Land	Marine
13 Contractors	25*(33)*	20*(20)*
1 Government:	1 (1)	0 (0)
2 Oil Companies:	11 (2)*	0 (1)*
Totals:	37*(36)*	20*(21)*

MIDDLE EAST

	Land	Marine
6 Contractors:	31 (30)	2 (1)
2 Governments:	8 (8)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	39 (38)*	2 (1)*

AFRICA

	Land	Marine
8 Contractors:	34 (34)	9 (12)
2 Governments:	11*(11)*	0*(0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	45*(45)*	9*(12)*

FAR EAST

	Land	Marine
8 Contractors:	33 (33)	11 (11)
1 Government:	40*(6)*	2*(0)*
1 Oil Company:	3*(3)	0*(0)
Totals:	76*(42)*	13*(11)*

MARCH TOTALS:

	Land Crews	Marine Vessels
United States:	107 (112)	21 (20)
Canada:	98 (62)	0 (0)
Mexico:	16 (17)*	0 (0)*
Central & South America:	50*(49)	9*(8)
Europe:	37*(36)*	20*(21)*
Middle East:	39 (38)*	2 (1)*
Africa:	45*(45)*	9*(12)*
Far East:	76*(42)*	13*(11)*
Totals:	468*(401)*	74*(73)*
Total Crews and Vessels:	542*(474)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.